



## RAW SEQUENCE LISTING ERROR REPORT

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following CRF diskette:

Application Serial Number:

09/193,538

Art Unit / Team No. :

O1PE

Date Processed by STIC:

11/25/98

**THE ATTACHED PRINTOUT EXPLAINS THE ERRORS DETECTED.**

**PLEASE BE SURE TO FORWARD THIS INFORMATION TO THE APPLICANTS BY EITHER:**

**1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANTS ALONG WITH A NOTICE TO COMPLY or,**

**2) CALLING APPLICANTS AND FAXING THEM A COPY OF THE PRINTOUT WITH A NOTICE TO COMPLY**

**THIS WILL INSURE THAT THE NEXT SUBMISSION RECEIVED FROM THEM WILL BE ERROR FREE.**

**IF YOU HAVE ANY FURTHER QUESTIONS, PLEASE CALL:**

**ARTI SHAH 703-308-4212**

## Raw Sequence Listing Error Summary

### ERROR DETECTED   SUGGESTED   CORRECTION

SERIAL NUMBER: 07/193,538

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

1  Wrapped Nucleic The number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".

2  Wrapped Aminos The amino acid number/text at the end of each line "wrapped" down to the next line.  
This may occur if your file was retrieved in a word processor after creating it.  
Please adjust your right margin to .3, as this will prevent "wrapping".

3  Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.  
All text must be visible on page.

4  Misaligned Amino Acid Numbering The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs between the numbering. It is recommended to delete any tabs and use spacing between the numbers.

5  Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.  
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.

6  Variable Length Sequence(s)  contain n's or Xaa's which represent more than one residue.  
As per the rules, each n or Xaa can only represent a single residue.  
Please present the maximum number of each residue having variable length and indicate in the (ix) features section that some may be missing.

7  Wrong Designation Sequence(s)  contain amino acid or nucleic acid designators which are not standard representations as per the Sequence Rules (Please refer to paragraph 1.822)

8  Skipped Sequences (OLD RULES) Sequence(s)  missing. If intentional, please use the following format for each skipped sequence:  
(2) INFORMATION FOR SEQ ID NO:X:  
(I) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")  
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:  
This sequence is intentionally skipped  
  
Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).

9  Skipped Sequences (NEW RULES) Sequence(s)  missing. If intentional, please use the following format for each skipped sequence.  
<210> sequence id number  
<400> sequence id number  
000

10  Use of N's or Xaa's (NEW RULES) Use of N's and/or Xaa's have been detected in the Sequence Listing.  
Use of <220> to <223> is MANDATORY if n's or Xaa's are present.

11  Use of <213>Organism (NEW RULES) Sequence(s)  are missing this mandatory field or its response.

12  Use of <220>Feature (NEW RULES) Sequence(s) 9/11 are missing the <220>Feature and associated headings.  
Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"  
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32)  
(Sec. 1.823 of new Sequence Rules)

13  Wrong Format File submitted was in the alphabetical heading format of the Old Sequence Rules. This is invalid since the "Requirements for Patent Applications Containing Nucleotide Sequence and/or Amino Acid Disclosures" Federal Register Notice, Vol. 63, No. 104, June 1, 1998, p. 29620 applies to applications filed on or after July 1, 1998.

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RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/193,538DATE: 11/25/1998  
TIME: 11:29:06

Input Set: I193538.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

1 <110> APPLICANT: Patricia Billing-Medel  
 2 Maurice Cohen  
 3 Tracey L. Colpitts  
 4 Paula N. Friedman  
 5 Julian Gordon  
 6 Edward N. Granados  
 7 Steven C. Hodges  
 8 Michael R. Klass  
 9 Jon D. Kratochvil  
 10 Lisa Roberts-Rapp  
 11 John C. Russell  
 12 Stephen D. Stroupe  
 13 <120> TITLE OF INVENTION: Reagents and Methods Useful for Detecting Diseases of the Breast  
 14  
 15 <130> FILE REFERENCE: 6193.US.P1  
 16 <140> CURRENT APPLICATION NUMBER: US/09/193,538  
 17 <141> CURRENT FILING DATE: 1998-11-17  
 18 <150> EARLIER APPLICATION NUMBER: 08/971,772  
 19 <151> EARLIER FILING DATE: 17-Nov-1997  
 20 <160> NUMBER OF SEQ ID NOS: 23  
 21 <170> SOFTWARE: FastSEQ for Windows Version 3.0  
 22 <210> SEQ ID NO 1  
 23 <211> LENGTH: 288  
 24 <212> TYPE: DNA  
 25 <213> ORGANISM: Homo sapiens  
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 28 ggcccccgtca gaagacccca gggactggag agccaacctc aaaggcacca tccgtgagac 120  
 29 aggcctggag accagctccg gtgggaagct ggctggccat cagaagaccg tccccacggc 180  
 30 tcacctgact tttgttattg actgcacccca cgggaagcag ctctccctgg cagcaaccgc 240  
 31 atcaccaccc caagccccca gtcccaatcg agggttgtca ccccacca 288  
 32 <210> SEQ ID NO 2  
 33 <211> LENGTH: 250  
 34 <212> TYPE: DNA  
 35 <213> ORGANISM: Homo sapiens  
 36 <400> SEQUENCE: 2  
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 38 gtgggaagct ggctggccat cagaagaccg tccccacggc tcacctgact tttgttattg 120  
 39 actgcacccca cgggaagcag ctctccctgg cagcaaccgc atcaccaccc caagccccca 180  
 40 gtcccaatcg agggcttgtc accccaccaa tgaagaccta catcgtgttc tgtggggaaa 240  
 41 actggcccca 250  
 42 <210> SEQ ID NO 3  
 43 <211> LENGTH: 256  
 44 <212> TYPE: DNA

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45 <213> ORGANISM: Homo sapiens  
 46 <400> SEQUENCE: 3  
 47 ctgtggggaa aactggccccc atctgactcg ggtgacccccc atgggtgggg gatgccttgc 60  
 48 ccaggccagg gccaccctgc cgctctgcag agggtctgtg gcctcagctt ccttcccagt 120  
 49 cagccccgtc tgccccccagg aggttcccga ggctaagggg aaacccgtga aggctgcgccc 180  
 50 tgtgaggtct tcaacttggg gaacagtcaa ggactcactg aaagccctct cctcttgtgt 240  
 51 ctgtgggcag gcccgt 256  
 52 <210> SEQ ID NO 4  
 53 <211> LENGTH: 256  
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 58 ctccaggaaa accatggat ctccttcagca cttgcagggg cctggcatgt ggaagatgt 120  
 59 ccagtaatat ttgctgtatg aatgaatgag tctcttcatg tgcaggtgac ttatcctgccc 180  
 60 tctgccactc gacggatgtt tcagatgccc cttagcggat ctaatgtatgt ttcccttggct 240  
 61 caagcacaaa agactc 256  
 62 <210> SEQ ID NO 5  
 63 <211> LENGTH: 133  
 64 <212> TYPE: DNA  
 65 <213> ORGANISM: Homo sapiens  
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 68 tccaccccaa aaataccagc tccaggaaaa ccatggtac tcccccagcac tttgcaggggc 120  
 69 ctggcatgtg gaa 133  
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 71 <211> LENGTH: 910  
 72 <212> TYPE: DNA  
 73 <213> ORGANISM: Homo sapiens  
 74 <400> SEQUENCE: 6  
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 76 ggccccgtca gaagacccca gggactggag agccaacccctc aaaggcacca tccgtgagac 120  
 77 aggcctggag accagctccg gtggaaagct ggctggccat cagaagaccg tccccacggc 180  
 78 tcacctgact tttgttattt gactgcacccca cggaaaggcag ctctccctgg cagcaaccgc 240  
 79 atcaccaccc caagccccca gtcccaatcg agggcttgc accccaccaa tgaagaccta 300  
 80 catcggttc tgtggggaaa actggcccca tcttactcgg gtgaccccca tgggtgggggg 360  
 81 atgccttgcc caggccaggg ccaccctgcc gctctgcaga gggctgtgg cctcagcttc 420  
 82 cttcccagtc agcccgctct gccccccagga gttcccagag gctaaggggaa aacccgtgaa 480  
 83 ggctgcgcct gtgaggtctt caacttgggg aacagtcaag gactcactga aagccctctc 540  
 84 ctcttgtgtc tgtgggcagg ccgattagct ggaaggccg ggctctgtatg cccagaggct 600  
 85 gcaattccca gggcctggcc ctgtttcccc agctaaggcag gagtctttg tgcttgagcc 660  
 86 aaggaaacat cattagatcc gctaaggggc atctgaaaca tccgtcgagt ggcagaggca 720  
 87 ggataagtca cctgcacatg aagagactca ttcattcata cagcaaataat tactggtaca 780  
 88 tcttccacat gccaggccct gcaaagtgc gggagatac catggtttc ctggagctgg 840  
 89 tattttggg gtggagggaa cccaccctga ataaataaag taacccaata aataaagaag 900  
 90 atgattttga 910  
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 92 <211> LENGTH: 915  
 93 <212> TYPE: DNA  
 94 <213> ORGANISM: Homo sapiens

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95  <400> SEQUENCE: 7
96    agagtggcct aggacagctc ctctcctgcc agagctaggc aggcgccgaa gtagccgcat 60
97    ggccccgtca gaagacccca gggactggag agccaacctc aaaggcacca tccgtgagac 120
98    aggccctggag accagctccg gtgggaagct ggctggccat cagaagacccg tccccacggc 180
99    tcacactgact tttgttattg actgcacccca cgggaagcag ctctccctgg cagcaaccgc 240
100   atcaccaccc caagccccca gtcccaatcg agggcttgtc accccaccaa tgaagaccta 300
101   catcggttgc tgtggggaaa actggcccca tctkactcgg gtgaccccca tgggtgggg 360
102   atgccttgcc caggccaggg ccaccctgcc gctctgcaga gggctgtgg cctcagctc 420
103   cttcccgatc agcccgctct gccccccagga gttcccagag gctaaggggaa aaccctgtgaa 480
104   ggctgcgcct gtgaggtctt caacttgggg aacagtcaag gactcactga aagccctctc 540
105   ctcttgtgtc tgtgggcagg ccgatttagct ggaaggccg ggctctgtatg cccagaggct 600
106   gcaattccca gggcctggcc ctgcttcccc agctaagcag gagtttttg tgcttgagcc 660
107   aaggaaacat cattagatcc gctaaggggc atctgaaaca tccgtcgagt ggcagaggca 720
108   ggataagtca cctgcacatg aagagactca ttcattcata cagcaaataat tactggtaca 780
109   tcttccacat gccaggccct gcaaagtgtct gggagatac catggtttc ctggagctgg 840
110   tattttggg gtggaggggaa cccaccctga ataaataaaag taacccaata aataaagaag 900
111   atgattttga acagc 915

112 <210> SEQ ID NO 8
113 <211> LENGTH: 68
114 <212> TYPE: DNA
115 <213> ORGANISM: Artificial Sequence
116 <220> FEATURE:
117 <223> OTHER INFORMATION: Restriction site
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120    cggaaatt 68

121 <210> SEQ ID NO 9
122 <211> LENGTH: 68
123 <212> TYPE: DNA
124 <213> ORGANISM: Artificial Sequence
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126    aattaattcc cgggtcgacg agctcaactag tcggcggccg ctctagagga tccaaagctcg 60
127    gaattccg 68

128 <210> SEQ ID NO 10
129 <211> LENGTH: 24
130 <212> TYPE: DNA
131 <213> ORGANISM: Artificial Sequence
132 <220> FEATURE:
133 <223> OTHER INFORMATION: Universal primer
134 <400> SEQUENCE: 10
135    agcggataac aatttcacac agga 24
136 <210> SEQ ID NO 11
137 <211> LENGTH: 18
138 <212> TYPE: DNA
139 <213> ORGANISM: Artificial Sequence
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141    tgtaaaaacga cggccagt 18
142 <210> SEQ ID NO 12
143 <211> LENGTH: 20
144 <212> TYPE: DNA

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*Sequen 12 on Euro sequencing plate*

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155 <211> LENGTH: 20  
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158 <400> SEQUENCE: 14  
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161 <211> LENGTH: 22  
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167 <211> LENGTH: 22  
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169 <213> ORGANISM: Homo sapiens  
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173 <211> LENGTH: 188  
174 <212> TYPE: PRT  
175 <213> ORGANISM: Homo sapiens  
176 <400> SEQUENCE: 17  
177 Glu Trp Pro Arg Thr Ala Pro Leu Leu Pro Glu Leu Gly Arg Arg Arg  
178 1 5 10 15  
179 Ser Ser Arg Met Ala Pro Ser Glu Asp Pro Arg Asp Trp Arg Ala Asn  
180 20 25 30  
181 Leu Lys Gly Thr Ile Arg Glu Thr Gly Leu Glu Thr Ser Ser Gly Gly  
182 35 40 45  
183 Lys Leu Ala Gly His Gln Lys Thr Val Pro Thr Ala His Leu Thr Phe  
184 50 55 60  
185 Val Ile Asp Cys Thr His Gly Lys Gln Leu Ser Leu Ala Ala Thr Ala  
186 65 70 75 80  
187 Ser Pro Pro Gln Ala Pro Ser Pro Asn Arg Gly Leu Val Thr Pro Pro  
188 85 90 95  
189 Met Lys Thr Tyr Ile Val Phe Cys Gly Glu Asn Trp Pro His Leu Thr  
190 100 105 110  
191 Arg Val Thr Pro Met Gly Gly Cys Leu Ala Gln Ala Arg Ala Thr  
192 115 120 125  
193 Leu Pro Leu Cys Arg Gly Ser Val Ala Ser Ala Ser Phe Pro Val Ser  
194 130 135 140

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195 Pro Leu Cys Pro Gln Glu Val Pro Glu Ala Lys Gly Lys Pro Val Lys  
196 145 150 155 160  
197 Ala Ala Pro Val Arg Ser Ser Thr Trp Gly Thr Val Lys Asp Ser Leu  
198 165 170 175  
199 Lys Ala Leu Ser Ser Cys Val Cys Gly Gln Ala Asp  
200 180 185  
201 <210> SEQ ID NO 18  
202 <211> LENGTH: 21  
203 <212> TYPE: PRT  
204 <213> ORGANISM: Homo sapiens  
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207 1 5 10 15  
208 Asn Leu Lys Gly Thr  
209 20  
210 <210> SEQ ID NO 19  
211 <211> LENGTH: 19  
212 <212> TYPE: PRT  
213 <213> ORGANISM: Homo sapiens  
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216 1 5 10 15  
217 Arg Gly Ser  
218 <210> SEQ ID NO 20  
219 <211> LENGTH: 35  
220 <212> TYPE: PRT  
221 <213> ORGANISM: Homo sapiens  
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224 1 5 10 15  
225 Ala Pro Val Arg Ser Ser Thr Trp Gly Thr Val Lys Asp Ser Leu Lys  
226 20 25 30  
227 Ala Leu Ser  
228 35  
229 <210> SEQ ID NO 21  
230 <211> LENGTH: 19  
231 <212> TYPE: PRT  
232 <213> ORGANISM: Homo sapiens  
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235 1 5 10 15  
236 Gln Lys Thr  
237 <210> SEQ ID NO 22  
238 <211> LENGTH: 8  
239 <212> TYPE: PRT  
240 <213> ORGANISM: Artificial Sequence  
241 <220> FEATURE:  
242 <223> OTHER INFORMATION: Affinity purification system recognition site  
243 <400> SEQUENCE: 22  
244 Asp Tyr Lys Asp Asp Asp Lys

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**VERIFICATION SUMMARY**  
PATENT APPLICATION US/09/193,538

DATE: 11/25/1998  
TIME: 11:29:06

Input Set: I193538.RAW

Line ? Error/Warning

Original Text

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